ABSTRACT

[Summary]

[Object] A dielectric ceramic composition for high frequencies of Patent Document 1 has a firing temperature of as high as 1350°C to 1400°C and is unsuitable for use as a material for multilayer capacitors because of its excessively high firing temperature. A multilayer capacitor of Patent Document 2 requires a complicated time-consuming manufacturing process and may cause a structural defect due to a difference between the coefficients of thermal shrinkage of an adhesive layer and a ceramic layer, thereby causing difficulty in miniaturization and multilayering of a multilayer ceramic capacitor.

[Solving means] A dielectric ceramic composition of the present invention is represented by the general formula, Mg_xSiO_{2+x} + aSr_yTiO_{2+y}, wherein x, y and **a** satisfy the relations of $1.70 \leq x \leq 1.99$, $0.98 \leq y \leq 1.02$, and $0.05 \leq \mathbf{a} \leq 0.40$, respectively.

[Selected figure] Fig. 1